



Avaya Solutions Platform 130 Series

Updating to R5.1.0.7.0 (ESXi 7.0 U3w) from R5.1.x (ESXi 7.0 U3x)

AVAYA

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Version Control Table

Version Number	Author	Purpose/Change	Date
Rev 6.0	Engineering Team.	Introduction of ASP Release 5.1.0.7	August 2026
Rev 5.0	Engineering Team.	Introduction of ASP Release 5.1.0.6	March 2025
Rev 4.0	Engineering Team.	Introduction of ASP Release 5.1.0.5	August 2024
Rev 3.0	Engineering Team.	Introduction of ASP Release 5.1.0.4	April 2024
Rev 2.0	Engineering Team.	Introduction of ASP Release 5.1.0.3	Dec 2023
Rev 1.2	Engineering Team.	Table of content updated. New heading structure for the Upgrade section. Minor Doc. fixes.	July 2023
Rev 1.1	Engineering Team.	SNMPv3 Setting requirements prior to upgrading to ESXi 7.x	July 2023
Rev 1.0	R&D Engineering Team.	Initial revision.	Jan 2023

About this task

Use the steps documented in this section when planning and conducting upgrades to ESXi host running on ASP 130 servers using the Avaya approved files.

The content in this documentation is only applicable to Avaya Solutions Platform 130 (ASP 130) servers and should not be used for other ASP server models or series such as ASP 110, ASP 120, ASP 4200.

OEM Server vendor, in this case Dell, provides Avaya with their latest certified package of ESXi software.

This ensures that any updates will be compatible with the underlying hardware, firmware and drivers running on the ASP 130 servers.

Note:

Due to the limitations between VMware and Avaya VIBs, starting with ASP 130 **R5.1** and onwards the ISO image **upgrade method** will no longer be a supported, documented method in this guide.

Warning

The use of files not approved by Avaya on the ASP130 servers is not allowed. This can put servers & applications at risk and will leave the server in an unsupported configuration.

Prerequisites

- Access to the DELL R640 server (ESXi Management interface) over the customer network or via the services port.
- Download the Avaya approved **AVAYA-DELL-ESXi-7uxx-xxxxxxx.zip** update file from [PLDS](#). PLDS Download ID **ASP00000030**.
- Ensure proper ESXi & Application backups have been taken prior to conducting the update activity.
- All existing VMs on the server **must** be gracefully shutdown and be in a powered-off state prior to the ESXi upgrade activity. **Reference to each application** documentation for prerequisites, guidelines and procedures when doing so.
- ESXi root credentials or temporary account with equivalent administrative privileges. Avaya services account via EASG authentication can also be used.

To Consider

ASP Upgrade testing

Starting with ASP R5.1.0.4.0 and onward releases, Avaya will only be testing upgrade paths from N-2 releases. For example, when R5.1.0.5.0 is available, the only upgrade paths Avaya will be testing and supporting are those from R5.1.0.3 and 5.1.0.4. Avaya strongly recommends, as a best practice, keeping up with the infrastructure FW/BIOS and ESXi (Hypervisor) versions to prevent from having to conduct one or multiple step-up upgrades in the future.

Persistent storage (Server Local storage)

- ❖ Customers that have migrated from **AVP 8.1.x** on the ASP 120 servers to **ASP 130 5.1.x** will have a local VMFS volume named to “server-local-disk”. This local VMFS volume (persistent storage) is used to deploy virtual machines, collect system logs and transfer files when updating the ESXi host. Data transferred to a persistent location remains on the server even if the server is rebooted or loses power.

Persistent storage directory

“/vmfs/volumes/server-local-disk”

- ❖ If ASP 120 server upgraded to ASP 130 5.1.x is then remastered or a fresh install is conducted on the server for any given reason, the VMFS volume (persistent storage) will get created with a “datastore1” label.

Persistent storage directory

“/vmfs/volumes/datastore1”

- ❖ When transferring files to the ESXi host for updates and upgrades, if the available VMFS volume is “**server-local-disk**” instead of “**datastore1**” it is **OK** to proceed. There is no need to reach out to Avaya support for approval or validation.

1. Supported Upgrade Path

Customers are allowed to update from previous Avaya Solutions Platform 130 releases **5.1.0.5.0** & **5.1.0.6** to release **5.1.0.7**.



Reference to the latest **Avaya Solutions Platform 130 Release Notes** available in <https://support.avaya.com> for detailed supported upgrade paths. If determined that one or multiple step-up upgrades are required before a server can get updated to **ASP 5.1.0.5**, reference to previously released ASP 130 upgrade documents respectively.

Important

Beginning with ASP release R5.1.0.4.0 and later, Avaya will validate and support upgrade paths only from the two most recent (N-2) releases. For example, for the current R5.1.0.7.0, supported upgrades will be from R5.1.0.5.0 and R5.1.0.6.0 only. To minimize the need for multi-step upgrades, Avaya strongly recommends keeping your infrastructure (including firmware, BIOS, and ESXi hypervisor versions) current with the latest supported releases. This proactive approach reduces risk, simplifies future upgrades, and ensures continued alignment with Avaya best practices.

Avaya Solutions Platform 130 certified images

Note: Image information for 5.0.x and earlier releases reference to previously released ASP 130 upgrade documents.

ASP Release	Latest Avaya Certified Image	Based on ESXi build number	Notes
<p>ASP 130 R5.1.0.7.0</p>	<p align="center"><u>ESXi ISO Image File:</u></p> <p align="center">AVAYA-DELL-ESXi-7u3w-24784741-min.iso</p> <p align="center"><u>ESXi Offline bundle ZIP File:</u></p> <p align="center">AVAYA-DELL-ESXi-7u3w-24784741.zip</p>	<p>ESXi 7.0 U3w 24784741</p>	<p><u>Avaya Customized image based on:</u></p> <ul style="list-style-type: none"> ▪ ESXi 7.0 u3w build 24784741 + Dell Add-on 7.0.3 A26 ▪ Avaya EASG 1.1-7 (Signed - same as with previous build. Included with the ZIP File only). ▪ Avaya Tools 1.8-1 (NEW - signed) ▪ Perccli 7.2616
<p>ASP 130 R5.1.0.6.0</p>	<p align="center"><u>ESXi Offline bundle ZIP File:</u></p> <p align="center">AVAYA-DELL-ESXi-7u3s-24585291.zip</p>	<p>ESXi 7.0 U3s 24585291</p>	<p><u>Avaya Customized image based on:</u></p> <ul style="list-style-type: none"> ▪ ESXi 7.0 u3s build 24585291 + Dell Add-on 7.0.3 A24 ▪ *New* Avaya Tools 1.7-1 (Signed) ▪ Avaya EASG 1.1-7 (Signed - same as with previous build. Included with the ZIP File only). ▪ Perccli 7.2616 (Same as previous build).

Table Continues...

ASP Release	Latest Avaya Certified Image	Based on ESXi build number	Notes
ASP 130 R5.1.0.5.0	<p><u>ESXi ISO Image File:</u></p> <p>AVAYA-DELL-ESXi-7u3q-23794027-min.iso</p> <p><u>ESXi Offline bundle ZIP File:</u></p> <p>AVAYA-DELL-ESXi-7u3q-23794027.zip</p>	ESXi 7.0 U3q 23794027	<p><u>Avaya Customized image based on:</u></p> <ul style="list-style-type: none"> ▪ ESXi 7.0 U3q build 23794027 + Dell Add-on 7.0.3 A21 ▪ *New* Avaya Tools 1.6-3 (Signed) ▪ Avaya EASG 1.1-7 (Signed -same as with previous build. Included with the ZIP File only). ▪ *New* Perccli 7.2616.
ASP 130 R5.1.0.4.0	<p><u>ESXi ISO Image File:</u></p> <p>AVAYA-DELL-ESXi-7u3p-23307199-min.iso</p> <p><u>ESXi Offline bundle ZIP File:</u></p> <p>AVAYA-DELL-ESXi-7u3p-23307199.zip</p>	ESXi 7.0 U3p 23307199	<p><u>Avaya Customized image based on:</u></p> <ul style="list-style-type: none"> ▪ ESXi 7.0 U3p build 23307199 + Dell Add-on 7.0.3 A19 ▪ Avaya Tools 1.5-3 (Signed) ▪ Avaya EASG 1.1-7 (Signed from 5.1 release). Included with the ZIP file only. ▪ Perccli 7.1910 (Same as previous version).
ASP 130 R5.1.0.3.0	<p><u>ESXi ISO Image File:</u></p> <p>AVAYA-DELL-ESXi-7u3o-22348816-min.iso</p> <p><u>ESXi Offline bundle ZIP File:</u></p> <p>AVAYA-DELL-ESXi-7u3o-22348816.zip</p>	ESXi 7.0 U3o 22348816	<p><u>Avaya Customized image based on:</u></p> <ul style="list-style-type: none"> ▪ ESXi 7.0 U3o build 22348816 + DellEMC Addon 7.0.3 A15 ▪ Avaya Tools 1.4-3 (Signed) ▪ Avaya EASG 1.0-2 (Signed from 5.1 release). Included with the ZIP file only. ▪ Perccli 7.1910 (Same as previous version).
ASP 130 R5.1.0.2.0	<p><u>ESXi ISO Image File:</u></p> <p>AVAYA-DELL-ESXi-7u3i-20842708-min.iso</p> <p><u>ESXi Offline bundle ZIP File:</u></p> <p>AVAYA-DELL-ESXi-7u3i-20842708.zip</p>	ESXi 7.0 U3i 20842708	<p>Avaya Customized image based on:</p> <ul style="list-style-type: none"> ▪ ESXi 7.0 U3i build 20842708 + DellEMC Addon 7.0.3 A09 ▪ Avaya Tools 1.3-1 (Signed) ▪ Perccli 7.1910 ▪ Avaya EASG 1.0-2 (Signed – from 5.1 release). Included with the ZIP file only.

Table Continues....

ASP Release	Latest Avaya Certified Image	Based on ESXi build number	Notes
ASP 130 R5.1.0.1.0	<p><u>ESXi ISO Image File:</u></p> <p>AVAYA-DELL-ESXi-7u3d-19482537-min.iso</p> <p><u>ESXi Offline bundle ZIP File:</u></p> <p>AVAYA-DELL-ESXi-7U3d-19482537.zip</p>	ESXi 7.0 U3d 19482537	<p><u>Avaya Customized image based on:</u></p> <ul style="list-style-type: none"> ESXi 7.0 U3d build 19482537 + DellEMC Addon 7.0.3 A04 Avaya Tools 1.1-2 (Signed) Perccli 7.1910 Avaya EASG 1.0-2 (Signed – from 5.1 release). Included with the ZIP file only.
ASP 130 R5.1	<p><u>ESXi ISO Image File:</u></p> <p>AVAYA-DELL-ESXi-7.0U3c-19193900-min.iso</p> <p><u>ESXi Offline bundle ZIP File:</u></p> <p>AVAYA-DELL-ESXi-7.0U3c-19193900.zip</p>	ESXi 7.0 U3c 19193900	<p><u>Avaya customized - based on:</u></p> <ul style="list-style-type: none"> Dell EMC Custom ESXi 7.0 U3c-19193900 A03 image Avaya Tools & EASG vib <p><u>Note:</u> The Avaya EASG VIBs are not included in the ISO image. If a fresh deployment is required, EASG vib will have to be installed separately.</p>

2. ESXi Host Upgrade Procedure

3.1 Upgrading to R5.1.0.7 (ESXi 7.0 U3s) from R4.0 (ESXi 6.5) using the offline bundle zip file



This upgrade path is no longer supported by Avaya. Reference to the latest **Avaya Solutions Platform 130 Release Notes** available in <https://support.avaya.com> for supported upgrade paths.

Note: Reference to previously released ASP 130 Upgrade documents for ESXi 6.5 to 7.0 step-up upgrade.

3.2 Updating to R5.1.0.7 (ESXi 7.0 U3w) from R5.1.0.5.0 (ESXi 7.0 U3q) or later using the offline bundle zip file



Direct updates to **R5.1.0.7** from **releases earlier than N-2 are not supported by Avaya**. For information on supported upgrade paths, refer to the latest **Avaya Solutions Platform 130 Release Notes** available in <https://support.avaya.com>.

Prerequisite

- The ASP 130 server **must be** running at a minimum **ESXi 7.0 U3q (R5.1.0.5)** prior to continuing.

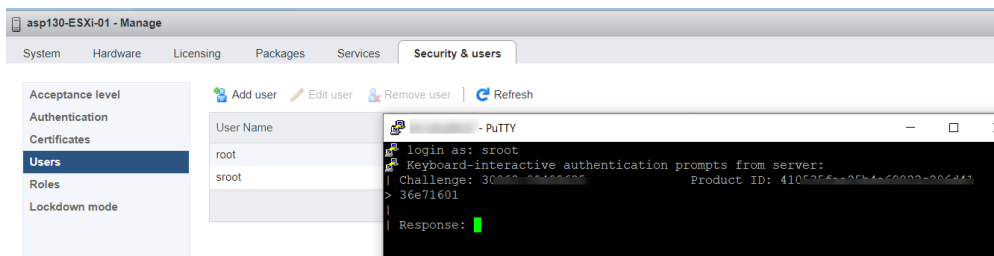
Note: If a step-up upgrade is required, reference to previously released ASP 130 Upgrade documents.

New with this image

Note: For a complete list of updates, changes, fixes, always reference to the latest **Avaya Solutions Platform 130 Release Notes** available in <https://support.avaya.com>

Avaya tools & EASG VIB:

- ❖ ASP130-config-v1.sh script: Starting with **ESXi 7.0 U3c (R5.1)** and later releases this script will be part of the Avaya tools VIB and will be executed as part of the first boot script.
- ❖ Avaya EULA: User may be prompted to accept the Avaya EULA after the first successful SSH login attempt.
- ❖ EASG VIB: Starting with **ESXi 7.0 U3c (R5.1)** and later releases, the EASG service is enabled by default. Reference to the [Enable/Disable EASG VIB](#) section if this service needs to be disabled once the update has completed.
- ❖ **root** account: This new account gets automatically created during the upgrade process and it is governed by the EASG service. This is the only Avaya services login.



Procedure

3.2.1 Transferring the ESXi 7 offline bundle zip file

3.2.1.1 Copy the previously download AVAYA-DELL-ESXi-7.OUXx-xxxxxxx.zip file to the local PC that will be utilized to access the ESXi Embedded Host Client (EHC) User Interface.

3.2.1.2 Open a web browser and connect to the appropriate ESXi Web host client using the host IP address or FQDN i.e., <https://<ESXi IP Address or FQDN>/ui>.

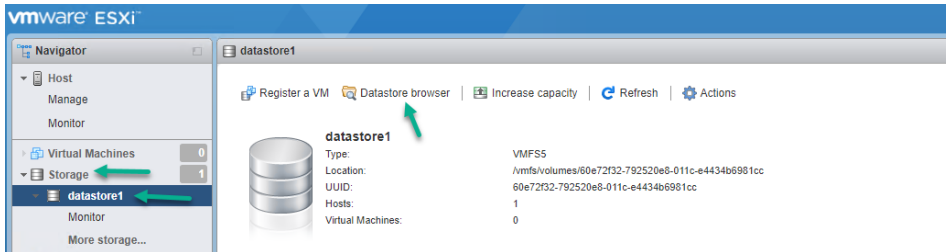
Note: This should be the first ESXi host to be updated.

3.2.1.3 Login using the existing **root** credentials or temporary admin account if applicable.

3.2.1.4 From the menu of the left, Navigate to **Storage** → **Datastore1** → **Datastore browser**.

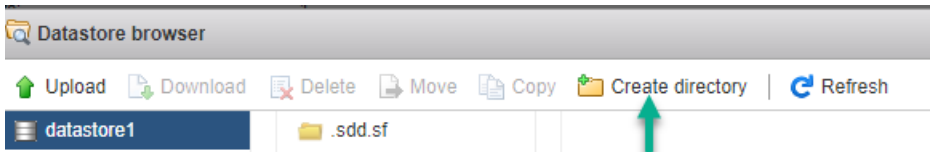
Note: if preferred, the ESXi offline bundle zip file can be transferred using the WinSCP tool (Not provided by Avaya). If this transfer method is chosen, after the file transfer has been completed, skip to [Placing the ESXi host in Maintenance Mode](#).

Note: Review the [To Consider](#) section if the local VMFS volumes name is different from the default “**datastore1**”.



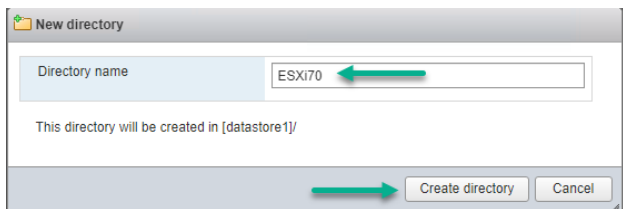
3.2.1.5 (Optional) Select the **Create directory** button.

Note: Creating a directory to upload the new ESXi offline bundle zip file is optional. Zip file can be uploaded directly to the host local storage e.g., **datastore1**.



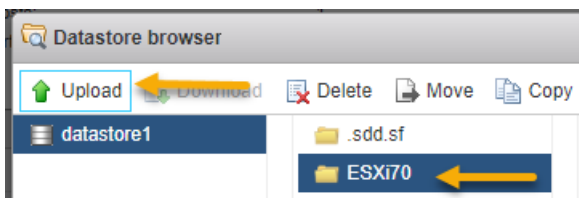
3.2.1.6 (Optional) Enter the Directory Name i.e., **ESXi70** and then select “**Create directory**”.

Note: Creating a directory to upload the new ESXi offline bundle zip file is optional. Zip file can be uploaded directly to the host local storage e.g., **datastore1**.



3.2.1.7 (Optional) In the Datastore browser, select the newly created folder i.e., **ESXi70** and select “**Upload**”.

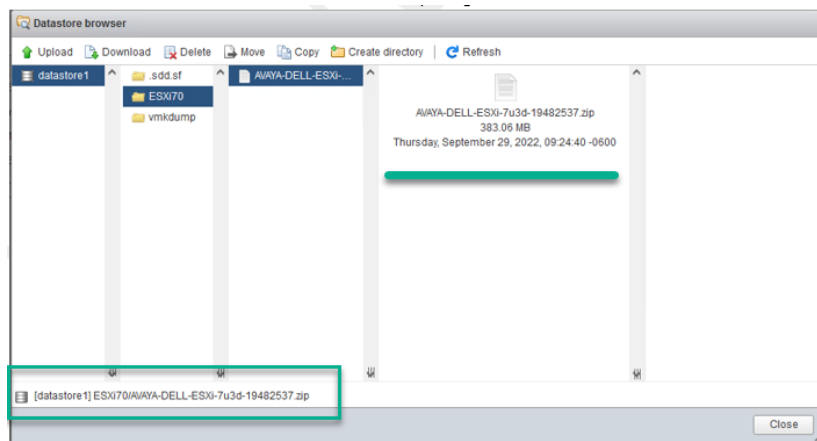
Note: Creating a directory to upload the new ESXi offline bundle zip file is optional. Zip file can be uploaded directly to the host local storage e.g., **datastore1**.



3.2.1.8 Browse to the location within the local PC where the customized Dell zip file “AVAYA-DELL-ESXi-7u3x-xxxxxxx.zip” has been previously stored and click “Open”.

3.2.1.9 *Datastore Browser* window can be closed once the zip file has been uploaded to the ESXi host.

Note: The following output is just a representation and should only be used as an example.



3.2.2 Placing the ESXi host in Maintenance Mode

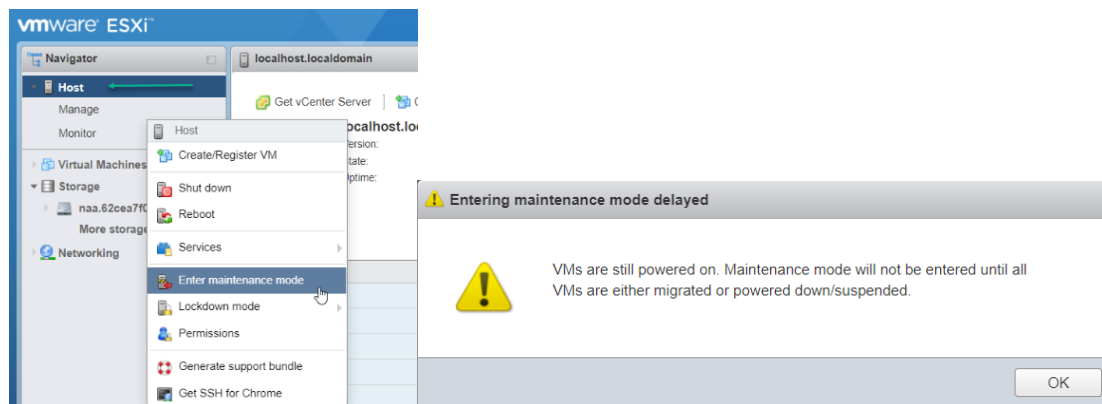
3.2.2.1 If not already, open a web browser and connect to the ESXi Web host client using the host IP address or FQDN e.g., <https://<ESXi IP Address or FQDN>/ui>. This is the same host selected during [Transferring the ESXi 7 offline bundle zip file](#).

3.2.2.2 From the menu on the left, Right click on *Host*>*Enter Maintenance Mode*.

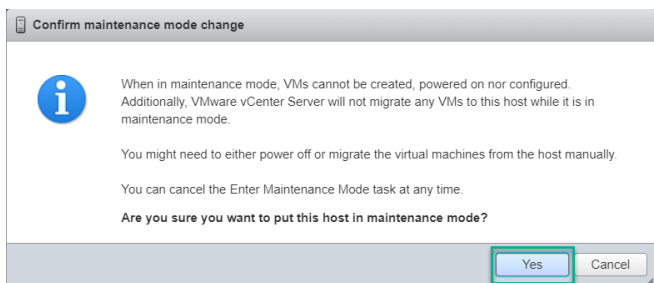
Warning

If there are VMs still powered on the ESXi host **STOP!** and reference to the prerequisite section prior to continuing. Failure to do so could potentially break running applications.

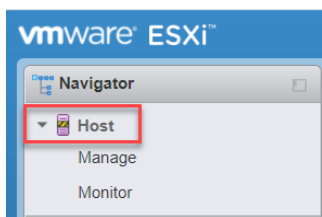
Note: The “Place in maintenance mode” task will not complete and time out thru time if VMs are not powered off.



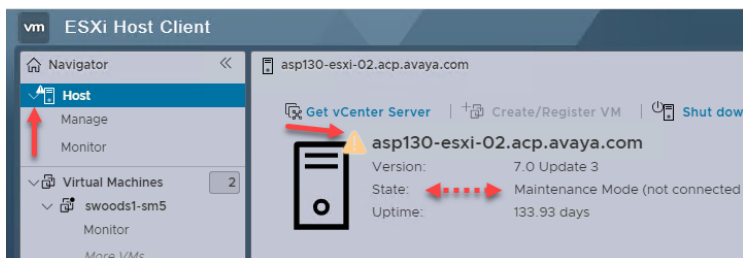
3.2.2.3 Click Yes when the popup window appears to *Confirm maintenance mode change*.



The icon representing the ESXi Host will change to display its new current state.



Note: Newer versions of ESXi will display a warning icon instead to represent the host state.



3.2.3 Checking the ESXi 7 ZIP File integrity

3.2.3.1 Log in to the ESXi host selected during [Placing the ESXi host in Maintenance Mode](#) by using a *Secure Shell (SSH)* client e.g., Putty (Not provided by Avaya).

3.2.3.2 Authenticate using the existing *root* credentials.

3.2.3.3 Run the following commands to validate patch directory and that the update ZIP file has been transferred:

```
ls -l /vmfs/volumes/datastore1/
```

Note: Below screen shows the directory created for [this example](#) “ESXi70”

```
[root@asp130-ESXi-01:~] ls -l /vmfs/volumes/datastore1/
total 24
-rw-r--r-- 1 root root 2645 Jun 21 17:45 ASP130srvprt-cfg-v2.sh
drwxr-xr-x 1 root root 420 Jul 16 14:42 ESXi70 ← New Directory
d-w-r-xr-T 1 root root 420 Jul 8 19:06 vmkdump
[root@asp130-ESXi-01:~]
```

```
ls -l /vmfs/volumes/datastore1/ESXi70
```

Note: The following output is just a representation and should only be used as an example.

```
[root@asp130-esxi-02:~] ls -l /vmfs/volumes/datastore1/ESXi70/
total 389120
-rw-r--r--  1 root    root    397527143 Jul 17 16:31 AVAYA-DELL-ESXi-7u3q-23794027.zip
[root@asp130-esxi-02:~] █
```

ESXi Offline Bundle File

3.2.3.4 Perform sha256 checksums:

Note: If the checksum values do not match with the ones posted on the PLDS and Avaya support web site **STOP!** File transfer could be corrupted, proceed with downloading and transferring the file once again. If the problem persists, contact Avaya support.

```
sha256sum /vmfs/volumes/datastore1/ESXi70/AVAYA-DELL-ESXi-7uXx-xxxxxxx.zip
```

Output Example:

Note: The following output is just a representation and should only be used as an example.

```
[root@asp130-esxi-02:~] sha256sum /vmfs/volumes/datastore1/ESXi70/AVAYA-DELL-ESXi-7u3q-23794027.zip
afc4ac050cb85f86d48d9be73d1b27bfa6c6d2701e9dccd8e9b948e7dbc84442 /vmfs/volumes/datastore1/ESXi70/AVAYA-DELL-ESXi-7u3q-23794027.zip
[root@asp130-esxi-02:~] █
```

3.2.3.5 Verify the date and the current VMware ESXi version running on the host:

```
date && vmware -v1
```

Note: The following output is just a representation and should only be used as an example.

```
[root@asp130-esxi-02:~] date && vmware -v1
Thu Jul 18 12:47:48 UTC 2024
VMware ESXi 7.0.3 build-23307199
VMware ESXi 7.0 Update 3
[root@asp130-esxi-02:~] █
```

3.2.4 Determining the ESXi image profile name

Note: Use the following procedure to determine the image profile name that is part of the Custom ESXi image. The profile name is unique and will change with every new image. Use the following as an example only.

3.2.4.1 If not already, log in to the ESXi host selected during [Checking the transferred ESXi ZIP file integrity](#) by using a *Secure Shell (SSH)* client e.g., Putty (Not provide by Avaya).

3.2.4.2 Authenticate using the existing *root* credentials.

3.2.4.3 Execute the following command:

```
esxcli software sources profile list -d  
/vmfs/volumes/datastore1/[ESXi_zip_folder_name]/[.zip file name]
```

Example:

Note: The following CLI command is just a representation and should only be used as an example.

```
esxcli software sources profile list -d /vmfs/volumes/datastore1/ESXi70/AVAYA-DELL-  
ESXi-7u3q-23794027.zip
```

Output Example:

```
[root@asp130-esxi-02:~] esxcli software sources profile list -d /vmfs/volumes/datastore1/ESXi70/AVAYA-DELL-ESXi-7u3q-23794027.zip  
Name Vendor Acceptance Level Creation Time Modification Time  
-----  
AVAYA-DELL-ESXi-7u3q-23794027 Dell Inc./Avaya LLC./VMware by Broadcom PartnerSupported 2024-07-15T19:40:28 2024-07-17T15:23:03  
[root@asp130-esxi-02:~] █
```

3.2.5 Running an ESXi upgrade simulation (Dry Run) - Mandatory

3.2.5.1 If not already, log in to the ESXi host selected during [Determining the ESXi image profile name](#) by using a *Secure Shell (SSH)* client e.g., Putty (Not provide by Avaya).

3.2.5.2 Authenticate using the existing *root* credentials.

3.2.5.3 Run the following command to perform an upgrade simulation (Dry run) before the actual procedure takes place.

Note: An installation dry run does not make any changes but reports the VIB-level operations and changes that will be performed on the ESXi host. This also enables users to verify whether the ESXi host can be upgraded to the intended version.

Note: The `esxcli software profile install` is the only supported method with the ASP130 solution when upgrading or updating ESXi hosts within the same major 7.0 release.

```
esxcli software profile install -p <image profile name> -d  
/vmfs/volumes/datastore1/[ESXi_zip_folder_name]/[.zip file name] --dry-run
```

Example:

Note: The following output is just a representation and should only be used as an example.

```
esxcli software profile install -p AVAYA-DELL-ESXi-7u3q-23794027 -d  
/vmfs/volumes/datastore1/ESXi70/AVAYA-DELL-ESXi-7u3q-23794027.zip --dry-run
```

Verify the dry run output is correct.

- ❖ Proceed with [Conducting the ESXi host update when VIB Removal is not required](#) if you see the following output:

```
Message: Dryrun only, host not changed. The following installers will be applied:  
[BootBankInstaller]  
Reboot Required: true  
VIBS Installed: [long list of VIBs that will be installed]  
VIBS Removed: [long list of VIBs that will be removed]
```




If the dry-run output returns other VIBs required to be removed than the ones describe above

(`QLC_bootbank_nqlcnic_6.0.63-1OEM.650.0.0.4240417`, `'INT_bootbank_i40en-ens_1.2.7.0-1OEM.700.1.0.15843807`), **STOP!** and reach out to Avaya support for guidance. Failure to do so could potentially remove required VIBs for the proper hypervisor operation in ASP130 compute servers, putting applications and server at risk.

3.2.6 Conducting the ESXi host update when VIB Removal is not required

3.2.6.1 If not already, log in to the ESXi host selected during [Determining the ESXi image profile name](#) by using a *Secure Shell (SSH)* client e.g., Putty (Not provide by Avaya).

3.2.6.2 Authenticate using the existing *root* credentials.

3.2.6.3 Execute the following command to perform the Host update:

```
esxcli software profile install -p <image profile name> -d  
/vmfs/volumes/datastore1/[ESXi_zip_folder_name]/[.zip file name]
```

Example:

Note: The following output is just a representation and should only be used as an example.

```
esxcli software profile install -p AVAYA-DELL-ESXi-7u3q-23794027 -d  
/vmfs/volumes/datastore1/ESXi70/AVAYA-DELL-ESXi-7u3q-23794027.zip
```

```
[root@asp130-esxi-02:~] esxcli software profile install -p AVAYA-DELL-ESXi-7u3q-23794027 -d /vmfs/volumes/datastore1/ESXi703_U3q/AVAYA-DELL-ESXi-7u3q-23794027.zip
Installation Result
Message: The update completed successfully, but the system needs to be rebooted for the changes to be effective.
Reboot Required: true
VIBs Installed: AVA_bootbank_avaya-tools_1.6-3, BCM_bootbank_bcm-mpi3_8.4.2.0.0-1OEM.700.1.0.15843807, BCM_bootbank_bnxtnet_229.0.146.0-1OEM.700.1.0.15843807, BCM_bootbank_bnxtrce_229.0.146.0-1OEM.700.1.0.15843807, BCM_bootbank_vmware-perccli64_007.2616.0000.0000-01, VMW_bootbank_nvmetcp_1.0.0.3-1vmw.703.0.125.23794027, VMW_bootbank_vmw-ahci_2.0.11-3vmw.703.0.125.23794027, VMware_bootbank_bmcwl_7.0.3-0.125.23794027, VMware_bootbank_cpu-microcode_7.0.3-0.125.23794027, VMware_bootbank_crx_7.0.3-0.125.23794027, VMware_bootbank_esx-base_7.0.3-0.125.23794027, VMware_bootbank_esx-dvfilter-generic-fastpath_7.0.3-0.125.23794027, VMware_bootbank_esx-ui_2.13.2-22721163, VMware_bootbank_esx-update_7.0.3-0.125.23794027, VMware_bootbank_esx-xsrver_7.0.3-0.125.23794027, VMware_bootbank_esxio-combiner_7.0.3-0.125.23794027, VMware_bootbank_gc_7.0.3-0.125.23794027, VMware_bootbank_loadesx_7.0.3-0.125.23794027, VMware_bootbank_native-misc-drivers_7.0.3-0.125.23794027, VMware_bootbank_trx_7.0.3-0.125.23794027, VMware_bootbank_vdfs_7.0.3-0.125.23794027, VMware_bootbank_vsan_7.0.3-0.125.23794027, VMware_bootbank_vsanhealth_7.0.3-0.125.23794027, VMware_locker_tools-light_12.3.5.22544099-23794019
VIBs Removed: AVA_bootbank_avaya-tools_1.5-3, BCM_bootbank_bcm-mpi3_8.4.2.0.0-1OEM.700.1.0.15843807, BCM_bootbank_bnxtnet_227.0.134.0-1OEM.700.1.0.15843807, BCM_bootbank_bnxtrce_227.0.134.0-1OEM.700.1.0.15843807, BCM_bootbank_vmware-perccli64_007.1910.0000.0000-01, VMW_bootbank_nvmetcp_1.0.0.1-1vmw.703.0.35.19482537, VMW_bootbank_vmw-ahci_2.0.11-2vmw.703.0.105.2348816, VMware_bootbank_bmcwl_7.0.3-0.110.23307199, VMware_bootbank_cpu-microcode_7.0.3-0.110.23307199, VMware_bootbank_crx_7.0.3-0.110.23307199, VMware_bootbank_esx-base_7.0.3-0.110.23307199, VMware_bootbank_esx-dvfilter-generic-fastpath_7.0.3-0.110.23307199, VMware_bootbank_esx-ui_2.11.2-21988676, VMware_bootbank_esx-update_7.0.3-0.110.23307199, VMware_bootbank_esx-xsrver_7.0.3-0.110.23307199, VMware_bootbank_esxio-combiner_7.0.3-0.110.23307199, VMware_bootbank_gc_7.0.3-0.110.23307199, VMware_bootbank_loadesx_7.0.3-0.110.23307199, VMware_bootbank_native-misc-drivers_7.0.3-0.110.23307199, VMware_bootbank_trx_7.0.3-0.110.23307199, VMware_bootbank_vdfs_7.0.3-0.110.23307199, VMware_bootbank_vsan_7.0.3-0.110.23307199, VMware_bootbank_vsanhealth_7.0.3-0.110.23307199, VMware_locker_tools-light_12.2.6.22229486-22348808
VIBs Skipped: AVA_bootbank_avaya-easg_1.1-7, BCM_bootbank_dell-shared-perc8_06.806.92.00-1OEM.700.1.0.15843807, BCM_bootbank_lsi-mr3_7.722.02.00-1OEM.700.1.0.15843807, BCM_bootbank_lsi-msgpt35_24.00.00.00-1OEM.700.1.0.15843807, DELL_bootbank_dell-configuration-vib_7.0.0-A06, DELL_bootbank_dell-fac-dell_7.0.3-A03, DELL_bootbank_dell-fist-util_5.2.3-2023.03.20, DELL_bootbank_dell-ssname-ideac_7.0.0-A02, EMU_bootbank_lprfc_14.2.567.0-1OEM.700.1.0.15843807, INT_bootbank_i40en_2.5.11.0-1OEM.700.1.0.15843807, INT_bootbank_icea_1.12.5.0-1OEM.700.0.0.17630552, INT_bootbank_igbn_1.11.2.0-1OEM.700.1.0.15843807, INT_bootbank_irkdman_1.4.3.0-1OEM.700.1.0.15843807, INT_bootbank_ixgben-ens_1.9.2.0-1OEM.700.1.0.15843807, INT_bootbank_ixgben_1.15.4.0-1OEM.700.1.0.15843807, MEL_bootbank_nmlx5-core_4.22.73.1004-1OEM.703.0.0.18644231, MEL_bootbank_nmlx5-rdma_4.22.73.1004-1OEM.703.0.0.18644231, MVL_bootbank_qlnativerfc_5.3.82.0-1OEM.703.0.0.18644231, QLC_bootbank_qcnic_2.0.66.0-1OEM.700.1.0.15843807, QLC_bootbank_qedentv_3.70.52.0-1OEM.700.1.0.15843807, QLC_bootbank_qedf_2.74.1.0-1OEM.700.1.0.15843807, QLC_bootbank_qedi_2.74.1.0-1OEM.700.1.0.15843807, QLC_bootbank_qedrtv_3.70.50.0-1OEM.700.1.0.15843807, QLC_bootbank_gfle3_1.4.46.0-1OEM.700.1.0.15843807, QLC_bootbank_gfle3f_2.1.33.0-1OEM.700.1.0.15843807, QLC_bootbank_gfle3i_2.1.14.0-1OEM.700.1.0.15843807, VMW_bootbank_atlantic_1.0.3.0-8vmw.703.0.20.19193900, VMW_bootbank_brcmfcoe_12.0.1500.2-3vmw.703.0.20.19193900, VMW_bootbank_elicisci_12.0.1200.0-9vmw.703.0.20.19193900, VMW_bootbank_elxnet_12.0.1250.0-5vmw.703.0.20.19193900, VMW_bootbank_iavmd_2.7.0.1157-3vmw.703.0.105.22348816, VMW_bootbank_ionic-en_16.0.0-16vmw.703.0.20.19193900, VMW_bootbank_iser_1.1.0.1-1vmw.703.0.50.20036589, VMW_bootbank_lpnlc_11.4.62.0-1vmw.703.0.20.19193900, VMW_bootbank_lsi-msgpt2_20.00.06.00-4vmw.703.0.20.19193900, VMW_bootbank_lsi-msgpt3_17.00.12.00-2vmw.703.0.105.22348816, VMW_bootbank_mtip32xx-native_3.9.8-1vmw.703.0.20.19193900, VMW_bootbank_ne1000_0.9.0-1vmw.703.0.50.20036589, VMW_bootbank_nenic_1.0.33.0-1vmw.703.0.20.19193900, VMW_bootbank_nfnic_4.0.0.70-1vmw.703.0.20.19193900, VMW_bootbank_nhpsa_70.0051.0.100-4vmw.703.0.20.19193900, VMW_bootbank_nmlx4-core_3.19.16.8-2vmw.703.0.20.19193900, VMW_bootbank_nmlx4-en_3.19.16.8-2vmw.703.0.20.19193900, VMW_bootbank_nmlx4-rdma_3.19.16.8-2vmw.703.0.20.19193900, VMW_bootbank_ntg3_4.1.9.0-5vmw.703.0.90.21686933, VMW_bootbank_nvme-pcie_1.2.3.16-3vmw.703.0.105.22348816, VMW_bootbank_nvmerdma_1.0.3.5-1vmw.703.0.20.19193900, VMW_bootbank_nvmmnet3-ens_2.0.0.22-1vmw.703.0.20.19193900, VMW_bootbank_nvmmnet3_2.0.0.30-1vmw.703.0.20.19193900, VMW_bootbank_pvscli_0.1-4vmw.703.0.20.19193900, VMW_bootbank_qfge_1.1.0.11-1vmw.703.0.20.19193900, VMW_bootbank_rste_2.0.2.0088-7vmw.703.0.20.19193900, VMW_bootbank_stvnc_2.4.0.2010-6vmw.703.0.20.19193900, VMW_bootbank_smartqpi_70.4149.0.5000-1vmw.703.0.20.19193900, VMW_bootbank_vmkata_0.1-1vmw.703.0.20.19193900, VMW_bootbank_vmkfcoe_1.0.0.2-1vmw.703.0.20.19193900, VMW_bootbank_vmkusb_0.1-8vmw.703.0.85.21424296, VMware_bootbank_elx-esx-libelxima.so_12.0.1200.0-4vmw.703.0.20.19193900, VMware_bootbank_lsu2-hp-v2-hpsa-plugin_1.0.0-3vmw.703.0.20.19193900, VMware_bootbank_lsu2-intelv2-nvme-vmd-plugin_2.7.2173-1vmw.703.0.20.19193900, VMware_bootbank_lsu2-lsu2-drivers-plugin_1.0.0-12vmw.703.0.50.20036589, VMware_bootbank_lsu2-nvme-pcie-plugin_1.0.0-3vmw.703.0.20.19193900, VMware_bootbank_lsu2-ocm-dell-plugin_1.0.0-1vmw.703.0.20.19193900, VMware_bootbank_lsu2-ocm-hp-plugin_1.0.0-1vmw.703.0.20.19193900, VMware_bootbank_lsu2-ocm-lenovo-plugin_1.0.0-1vmw.703.0.20.19193900, VMware_bootbank_lsu2-smartqpi-v2-plugin_1.0.0-9vmw.703.0.105.22348816, VMware_bootbank_vmware-esx-esxcli-nvme-plugin_1.2.0.44-1vmw.703.0.20.19193900
[root@asp130-esxi-02:~] █
```

3.2.6.4 Run the following command from the CLI to reboot the ESXi host:

```
reboot
```

3.2.6.5 Proceed to [Validating the ESXi Host Update](#)

Note: At this stage it is expected to have the ESXi host updated to the corresponding build number. If the version on the updated ESXi host does not match the intended version **STOP!** and restart the update process from the beginning prior to updating ESXi on the next server.

```
vmware -v1
```

Note: The following output is just a representation and should only be used as an example.

```
[root@asp130-r640:~] vmware -v1
VMware ESXi 7.0.3 build-24784741
VMware ESXi 7.0 Update 3
[root@asp130-r640:~] █
```

3.2.8.4 Validate the updated ASP version by executing the following command:

```
cat /opt/avaya/etc/avaya-asp.version
```

Note: The following output is just a representation and should only be used as an example.

```
[root@asp130-r640:~] cat /opt/avaya/etc/avaya-asp.version
ASP Release 5.1.0.7.0
[root@asp130-r640:~] █
```

3.2.8.5 Validate EASG status on server via the CLI by executing the following command:

```
EASGStatus
```

Output example:

```
[root@asp130-esxi-02:~] EASGStatus
EASG is enabled
[root@asp130-esxi-02:~] █
```

3.2.8.6 Take the ESXi host out of maintenance mode via the CLI by executing the following command:

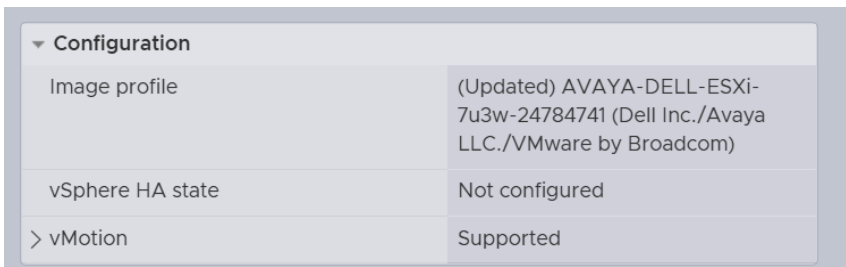
Note: This task can also be conducted via the Embedded Host Client if desired.

```
vim-cmd hostsvc/maintenance_mode_exit
```

3.3.8.5 Open a web browser and connect to the ESXi Web host client using the host IP address or FQDN i.e., https://ESXi_IP_Address_or_FQDN/ui.

Note: The Main dashboard view will display the updated ESXi version, and the image profile used when the upgrade was performed. At this point, virtual machines can be powered-on to place applications back into operation.

Note: The following output is just a representation and should only be used as an example.



Configuration	
Image profile	(Updated) AVAYA-DELL-ESXi-7u3w-24784741 (Dell Inc./Avaya LLC./VMware by Broadcom)
vSphere HA state	Not configured
> vMotion	Supported

- 3.3.8.6 **As good practice**, remove any previous and current ESXi offline zip bundle files from the system before disconnecting.
- 3.3.8.7 Proceed to [Licensing Procedure](#).

4 Licensing Procedure

ESXi host updates within the same major vSphere 7 release (starts with the same leading number) do not require a replacement of the existing license key with a new one. For example, an ESXi host getting updated from ESXi 7.0 U3o (R5.1) or later to ESXi 7.0 U3q (R5.1.0.5) or later release within 7.x can continue using the same vSphere license key.

Warning: Updating directly to R5.1.0.6 (ESXi 7.0 U3s) or later from N-2 and earlier releases is not supported by Avaya. Reference to the latest **Avaya Solutions Platform 130 Release Notes** available in <https://support.avaya.com> for detailed supported upgrade paths. If determined that one or multiple step-up upgrades are required before a server can get updated to ASP 5.1.0.6, reference to previously released ASP 130 upgrade documents respectively as well as for **licensing requirements**.

5 Disabling & Enabling the EASG Service in ESXi 7.0

5.1 Disabling the EASG Service in ESXi 7.0

- 5.1.1 Log in to the first ESXi host by using a *Secure Shell (SSH)* client i.e., Putty (Not provided by Avaya).
- 5.1.2 Authenticate using the existing *root* credentials.
- 5.1.3 Run the following command to check the status of the EASG service:

- EASGStatus

Output Example:

EASG is enabled

- 5.1.4 Run the following command to disable EASG if **EASG is enabled**:

- EASGManage --disableEASG
- When ready type: **yes**

Note: if a user enters Y or y instead of **yes**, the system will abort instruction.

```
[root@asp130-ESXi-01:~] EASGManage --disableEASG
By disabling Avaya Logins you are preventing Avaya access to your system. This
is not recommended, as it impacts Avaya's ability to provide support for the
product. Unless the customer is well versed in managing the product themselves,
Avaya Logins should not be disabled.

Do you want to continue [yes/no]? yes

EASG Access is disabled. Performed by user ID: 'root', on Jan 14 2022 - 19:24
[root@asp130-ESXi-01:~]
```

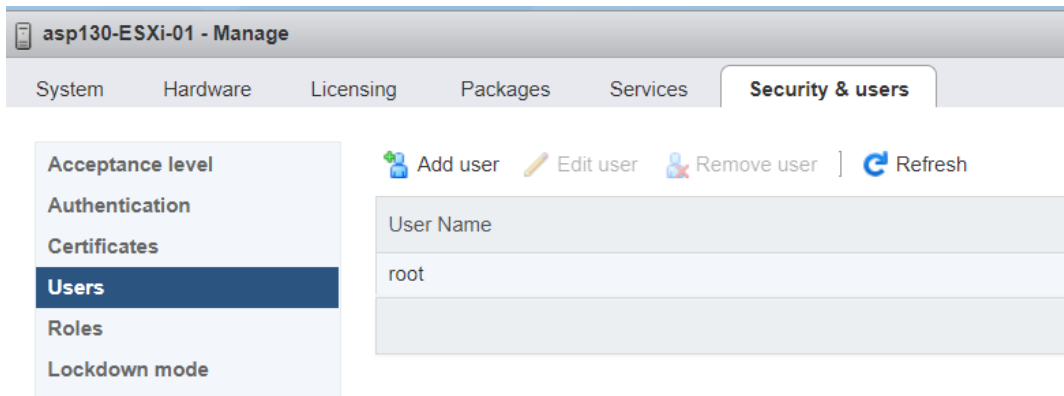
➤ EASGStatus

Expected Output:

EASG is disabled

root account gets removed.

Security & Users view from the ESXi UI after disabling EASG.



5.2 Enabling the EASG Service in ESXi 7.0

5.2.1 Log in to the first ESXi host by using a *Secure Shell (SSH)* client e.g., Putty (Not provided by Avaya).

5.2.2 Authenticate using the existing *root* credentials.

5.2.3 Run the following command to check the status of the EASG service:

➤ EASGStatus

Output Example:

EASG is disabled

5.2.4 Run the following command to enable EASG if **EASGS is disabled**:

➤ EASGManage --enableEASG

➤ When ready type: **yes**

Note: if a user enters Y or y instead of **yes**, system will abort instruction.

```
[root@asp130-ESXi-01:~] EASGManage --enableEASG

(Recommended)
By enabling Avaya Logins you are granting Avaya access to your system. This is
necessary to maximize the performance and value of your Avaya support
entitlements, allowing Avaya to resolve product issues in a timely manner.

In addition to enabling the Avaya Logins, this product should be registered
with Avaya and technically onboarded for remote connectivity and alarming.
Please see the Avaya support site (support.avaya.com/registration) for
additional information for registering products and establishing remote
access and alarming.

Do you want to continue [yes/no]? yes
EASG Access is enabled. Performed by user ID: 'root', on Jan 14 2022 - 19:48
[root@asp130-ESXi-01:~] █
```

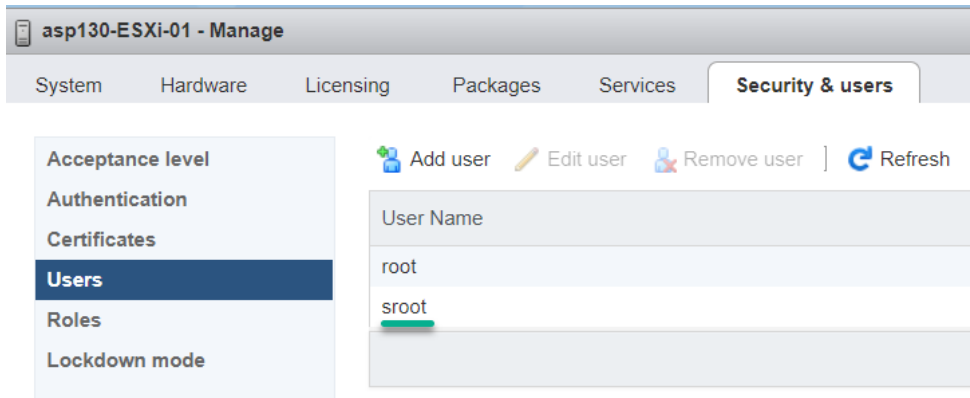
➤ EASGStatus

Expected Output:

EASG is enabled

sroot account gets created.

Security & Users view from the ESXI UI after enabling EASG.



Finding documents on the Avaya Support website

Procedure

1. Go to <https://support.avaya.com>.
2. At the top of the screen, type your username and password and click **Login**.
3. Click **Support by Product > Documents**.
4. In **Enter your Product Here**, type the product name and then select the product from the list.
5. In **Choose Release**, select the appropriate release number.
The **Choose Release** field is not available if there is only one release for the product.
6. In the **Content Type** filter, click a document type, or click **Select All** to see a list of all available documents.
For example, for user guides, click **User Guides** in the **Content Type** filter. The list only displays the documents for the selected category.
7. Click **Enter**.

Avaya Documentation Center Navigation

For some programs, the latest customer documentation is now available on the Avaya Documentation Center website at <https://documentation.avaya.com>.

! **IMPORTANT:** For documents that are not available on Avaya Documentation Center, click **More Sites > Support** on the top menu to open <https://support.avaya.com>.

Using the Avaya Documentation Center, you can:

- Search for keywords.
To filter by product, click **Filters** and select a product.
- Search for documents.
From **Products & Solutions**, select a solution category and product, and then select the appropriate document from the list.
- Sort documents on the search results page.
- Click **Languages** to change the display language and view localized documents.
- Publish a PDF of the current section in a document, the section and its subsections, or the entire document.
- Add content to your collection using **My Docs** (★).
Navigate to the **Manage Content > My Docs** menu, and do any of the following:
 - Create, rename, and delete a collection.
 - Add topics from various documents to a collection.
 - Save a PDF of the selected content in a collection and download it to your computer.
 - Share content in a collection with others through email.
 - Receive collection that others have shared with you.
- Add yourself as a watcher using the **Watch** icon (👁).
Navigate to the **Manage Content > Watchlist** menu, and do the following:
 - Enable **Include in email notification** to receive email alerts.
 - Unwatched selected content, all content in a document, or all content on the **Watch list** page.

As a watcher, you are notified when content is updated or deleted from a document, or the document is removed from the website.
- Share a section on social media platforms, such as Facebook, LinkedIn, and Twitter.
- Send feedback on a section and rate the content.

*** NOTE:** Some functionality is only available when you log in to the website. The available functionality depends on your role.

Support

Go to the Avaya Support website at <http://support.avaya.com> for the most up-to-date documentation, product notices, and knowledge articles. You can also search for release notes, downloads, and resolutions to issues. Use the online service request system to create a service request. Chat with live agents to get answers to questions or request an agent to connect you to a support team if an issue requires additional expertise.